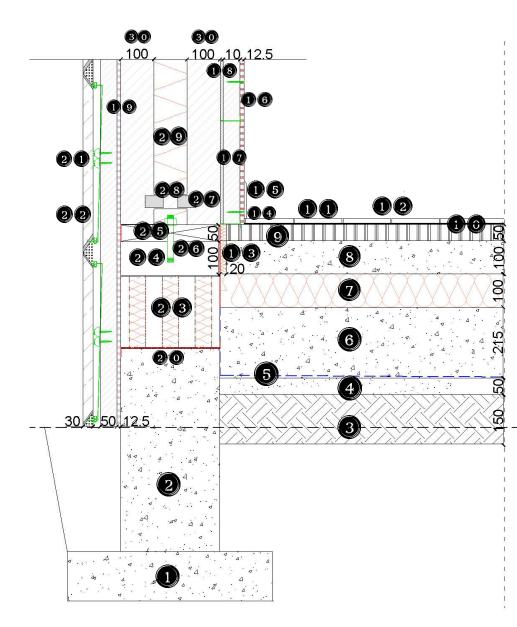
Typical Detail – Passive Twin Stud Wall to Loadbearing Screed Floor



NOTES:

1. Strip foundation concrete trench 620mm wide and 150mm deep, Concrete mix - RIGAcrete Watertight, water resistant concrete, minimum cement content 220 kg/m3, strength C40/50, to BS 8500-2. Manufacturer: Leiths (Scotland) Ltd

Reinforced concrete substructure wall up to 150 mm above ground level 300mm thick, Concrete mix - RIGAcrete Watertight, water resistant concrete, minimum cement content 220 kg/m3, strength C40/50, to BS 8500-2. Manufacturer: Leiths (Scotland) Ltd

3 150 mm thick layer of consolidated hardcore: MOT TYPE 1 SUB BASE LARGE BULK BAG, Type/Standard: MOT TYPE 1 SUB BASE, to BS EN 13242, Product Code: AGSTB020, Unit sizes: Bulk bags, Durability: Sub base aggregate. Manufacturer: Jewson Limited.

4. 50 mm compacted sand binding; BUILDING SAND LARGE BULK BAG, Type/Standard: BUILDING SAND, to BS EN 13139:2002, Product Code: AGSTB001, Unit sizes: Bulk bags, Durability: Sharp sand, Manufacturer: Jewson Limited.

5. DPM overlapped 150 mm upward: Type/Standard: Hyload Universal DPM (500 μm), to BS EN 13967:2012+A1:2017, Product code: 30833510. Colour and finish: blue, Unit sizes: Sheet width: 4 m, Roll length: 12.5 m, Roll weight: 23 kg. Durability: 2000 gauge. Related: Hyload DPM Jointing Tape, Product code: 30833520. Manufacturer: IKO PLC.

6. 215 mm thick concrete floor slab: Concrete mix - RIGAcrete High Flow, strength C16/20, to BS 8500-2. Manufacturer: Leiths (Scotland) Ltd,

7: 100 mm thick extruded polystyrene: Extruded polystyrene rigid boards of pre-extruded polystyrene beds, to Approved Documents L1A, L2B, L2B (England and Wales) and Section 6 - Energy (Scotland) Type/Standard: HEXATERM Yelofoam x2i extruded polystyrene, product code: ICX21100, (available from JEWSON Limited), U-value (W/mK) - 0.034, Colour and finish: Square edge detail, Unit sizes: 2500 x 600 x 100mm, Durability: High compressive strength - 300 kPa to BS EN 826 and BS EN 1606, High water resistance. Manufacturer: Cellecta Itd.

8. 100 mm thick concrete floor slab: Concrete mix - RIGAcrete High Flow, strength C16/20, to BS 8500-2. Manufacturer: Leiths (Scotland) Ltd,

 Anhydrite fluid screed layer 50mm: Gypsol XS High Strength Anhydrite Screed, Appearance: Off white fluid mortar. Density: Wet – 2200 kg/m², dry – 2000 kg/m², Minimum strength (28 days); CA:C30+7. Required flow (to 65 EN 1345-21): 230–270 mm. Drying time (to <7%) relative humidity (Hr) at 50 mm depth): Natural drying 28 days; forced drying 13 days. Can take foot traffic 24-48 hours and loading 5-7 days (based nagood drying conditions of 60% RH at 2000); Fire rating: Class JAI. Manufacture: CityFOL. UA8

10. Acoustic fram layer under timber boards 5mm: Earthwool® Acoustic Floor Slab 5mm resilient layer over 10 more compression resistant, non-computable, rock mineral wool slab mode with a formalderlydwid-reb tinder derived from rapid v preveable materials classified as Zero ODP and Zero GWP. Sabi length: 900 mm, Slab width: 600 mm, Fire performance. Eurodass Alt to B5 EN ISO 13501.1. Environmental: 'A' generic BRE Green Guide rating. The resilient layer turned up at the edges of the floor to isolate the walls form the screed. Manufacture: Knauf Insulation Ltd.

11. Timber floorboard, Size (ux 1): 190 x 1830 nm. Thickness: 15 mm. Material: Oak: 11 mm thick multi-layer ply backing with 4 mm thick solid cut veneer top layer. Finish: Hard wax oil matt. Edges: Tongue and grooved and mirro bevelled on all four ides. Grade: CDE. Standards: Meets all load bearing requirements of BS 6399-1 and also compliant with BS 6399-1 Table 1, Section 3 for Museum Floors and Art Galeries for exhibitions FSC.

certification: FSC 100%. Manufacturer: The Solid Wood Flooring Company

12 Expansion gap for timber flooring 3mm 13. Acoustic foam layer overlapped from under timber boards 20mm: Earthwool® Acoustic Floor Slab 20mm resilient layer over floor screed. Dense, compression resistant, non-combustible, rock mineral wool slab made with a formaldehyde-free binder derived from rapidly renewable materials classified as Zero ODP and Zero GWP. Slab length: 900 mm, Slab width: 600mm, Fire performance: Eurobas A1 to 65 EN ISO 13501-1. Environmental: 'A' generic BRE Green Guide rating. The resilient layer turned up at the edges of the floor to Isolate the walls from the screed. Manufacture: Knauf insulation tud.

14. Timber floorboards expansion gap 5mm 15. Timber skirting board 120 x 15mm thick

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Composition: Aarsted Calcium sulphate d-hydrate with fillers and fibres and see and see white pre-sealed paper with bound edges. Core and papers are bonded with starch. Edge glue is PVA Complex with BS EN 520:2004+A1:2009 Type D, F, I & R. Longitudinal breaking load \geq 550N, Transverse breaking load \geq 250N, Reaction to fire: Eurodass A2-s1, 40, Molisture Content: <2%, Mean Water vapour resistance factor: µ = 10 according to BS EN 125/24 standard, Nail & screw pull through: > 700 N, Thermal Conductive, NR: 0.25 W/mK product sizes: Tapered Edge, 12.5 mm thick, 2400 mm x 1200 mm, 38 kg. Finished with skim coat 3 mm thick, smoothed, Joining and finish: GTEC Deco joining systems: GTEC fire rated allicone sealant, GTEC easyfinish extra, GTEC deco filer, GTC edging bead, GTEC patching tape, GTEC joint tape, Hxing: GTEC driveling. GTEC adging bead of Tapping Screw and GTEC performance self tapping - Fine threaded screw, Phillips head, Carbon steel screws with Zinc Coating, Manufactured to BS EN 14566. Manufacturer: Etex Building Performance Siniat.

17. Service void batten 50x50mm - Scots pine battens, Type/Standard: BS 4978:2007+A2:2017, grade C16 specified in BS EN 1995-1-1:2004+A2:2014, Unit sizes: 50x50mm, Manufacturer: Stewart Milne Group.

18. Sheathing boards, Type/Standard: softwood grade to BS5268-2:2000 and to CP112 part 2, Unit sizes: 600x1200x9.5mm thick, Durability: OSB softwood C16. Manufacturer: Stewart Milne Group.

19. External Weather Defence sarking boards, fully non-combustible Euroclass A1 rated sheathing boards and confirmed by BRE as a suitable alternative to cement particle board in external systems, tested or assessed against 6584142 or BR 135, lightweight board which can easily create comers or striking curves. Sheathing board's layer 1 x 12 Smm. Weather Defence Air permeability: to European standard B1 N1114 10002 m/m/hr – a negligible flow of air, Hurrid movement: to BN38 maintum expansion of 0.013%), from 65% to 65% relative humidity. Sizes: Width: 1200mm, Length: 2400mm, Boards per pallet: 52, Board weight: D0.8kg/m2. Fixings and sealarts: FS90/W Flat Plate to studk corresponding with all horizontal board joints, Weather Defence Joint Tape. Manufacturer: EtesBuilding Performance Siniat.

20. Flexible DPCs. Type/Standard: Gas Resistant DPC overlapped to meet DPM. Manufacturer: Cordek Ltd.

21 Invisible Fix System: Capped cladding fixing for clips to vertical batters, 35mm, Steel panels clip fixing 500mm turned by panel diagonal, Additional botting fixing for panels and clips on multion extent. Secret fix solution with steel clips screwed directly to vertical batters. Mechanical Secret fix: aluminium framing system consisting of hangers fixed to the rear of the hard/Libragers, Bails and Screwel, Manufacture: VVALDA

12. Our Lin wall clading, panels 500x500mm diamond shape with alloy mullions I shaped with extension for clip fixing. Air dired jointed Sottish oak clading, Compliant with BS EN 14915 and BS 860x-1 500x500mm panels 30mm thick, stained with Ronseal single coast for rough sawn wood, three colours: Dark Oak, Oarcoal Grey, Stone, waterbased, neutral for environment. Technical properties: Moisture content: 16-20%. Natural durability to BS EN 3502; Durable, Class 2. Insect attack: Sap exclude from front face. Service life (to BS 44.17): Occasionally wet: 60 years: frequently wet: 30 years. Treatability doss: Resistant: Movement class: Medium. Resistance to impact: Medium to high. Resistance to fixing: High, pre-drilling recommended. When to fix: Ideally auturn, winter only. Grading: BS 11863: 30: 533; BS EN 492; 130; CE: Grade A. Alloy profiled mullions T angled DSF32 5 x 2.5 mm Range, 30mm web, gauge 12. 500x500 glass panels: Technical features: Triple glazed, 3 panel configuration, triple track copies around depane system, provides added security and using infinite ST interes. Simulation: 30mm deep outerframe, multipoint locking system, stainless teel one olice keep. was around plazing system, stroke added security and using infinite Group.

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formaldehyde-free binder derived from rapidly renewable materials classified as Zero ODP and Zero GWP. Thermal conductivity (K-value): 0.034 W/mK. Roll width: 1200mm. Fire performance: Euroclass A1 to BS EN ISO 13501-1. Manufacturer: Knauf Insulation Ltd

24. Airtee areated concrete brick supporting internal and external wall leaf's 300x100mm thick. Light dense concrete blocks Airtee Large, Gross Dry density 600 (+-50) kg/m3, Compressive strength 3.6 N/mm2, Fire resistance 4 hours, Available size: 620x430x100mm, to cut on site. Thermal conductivity: 0.17 W/mK. Manufacturer: Thomas Armstrong (Holdinas) Ltd.

25: Sole plate 50x300mm thick – Scots pine wall plate and panel framing board, Type/Sandard: BS 49%2007+42:2017, grade C16 specified in BS EN 1995-11-2004+A2:2014, Unit sizes: 300 mm x 50 mm, Manufacturer: Stewart Milne Group. Included: Vertical restrain straps, Type/Standard: Medium Twist Strap, to BS EN 845-1, Unit sizes: Ref. MTS12, dimensions 32x305x31, Smm, holes 14 Ø 4 - 2 Ø 30, frateners x 12 - 37 × 30, load capacity 40 20 M. Diversal Transing anchors, Type/Standard: Stamp, Stamp Sta

26. Framing bolt: Type/Standard: Framing bolt/Universal Framing bolt, to BS EN 845-1, Unit sizes: Ref. A34, Dimensions and drill holes [mm] 22, downloads 1.30 kN, Durability: Pre-galvanized mild steel. Manufacturer: SIMPSON STRONG-TIE

27. Plate connectors, Type/Standard: Nail plates, to BS EN 845-1. Unit sizes: Ref. NP100/300, Dimensions and drill holes [mm] 35 x 50x1.5, 5 holes, diameter Ø4.1, Durability: Pre-galvanized mild steel. Manufacturer: SIMPSON STRONG-TIE.

28. Collars/Nies, scots pine stud ties, Type/Standard: BS 4978:2007+A2:2017, grade C16 specified in BS EN 1995-1-1:2004+A2:2014, Unit sizes: 100 mm x 44 mm, Manufacturer: Stewart Milne Group.

29. 300mm WARMCEL Cellulose Fibre Insulation - Low-dust cellulose with a small percentage of oil or gmilar dust dampeare added. Thermal Conductivity Lambda 50/90.23*C/50%RH 0.038 W/mK to EN 12667 EN ISO 10456 EAD 040138-00-1201. Reaction to Fire Class E. Specific Airflow Resistance for bulk density 60.0 kg/m3 ≤18 kPa*s/m2, Critical Moisture Content 75%. Density min 55 (kg/m3), Specific heat capacity 2020 ± 6% J/kg K, vapor permeable. Manufacturer: PYCInsulation.

30. Vertical twin studs 50x100mm thick - Scots pine twin studs, Type/Standard: B5 4978:2007+A2:2017, arXeiC16 specified in B5 EN 1995-1:1:2004+A2:2014, arXeiC16 specified in B5 EN 1995-1:1:2004+A2:2014, durit sizes: 100 mm x 50 mm, Manufacturer: Sewart Mine Group, Included: Jastenes - Type/Standard: Electro.galanized annuar ring-shank neulis, Timber Fasteness, Electro galanized with Vellow Chromate and arti-friction coating structural screws, Square Twist Nalis, Unit sizes: 335mm (10 gauge) x 65mm long galanized cond wire nalis, 45mm x 100mm long galanized cond wire nalis, 45mm x 100mm long galanized round wire nalis, 45mm x 100mm long galanized cond Manufacturer: SMMPRON STRONG-TIE.